

Proposed Adhesion Models Based on the X-ray Studies of N- and E-Cadherins

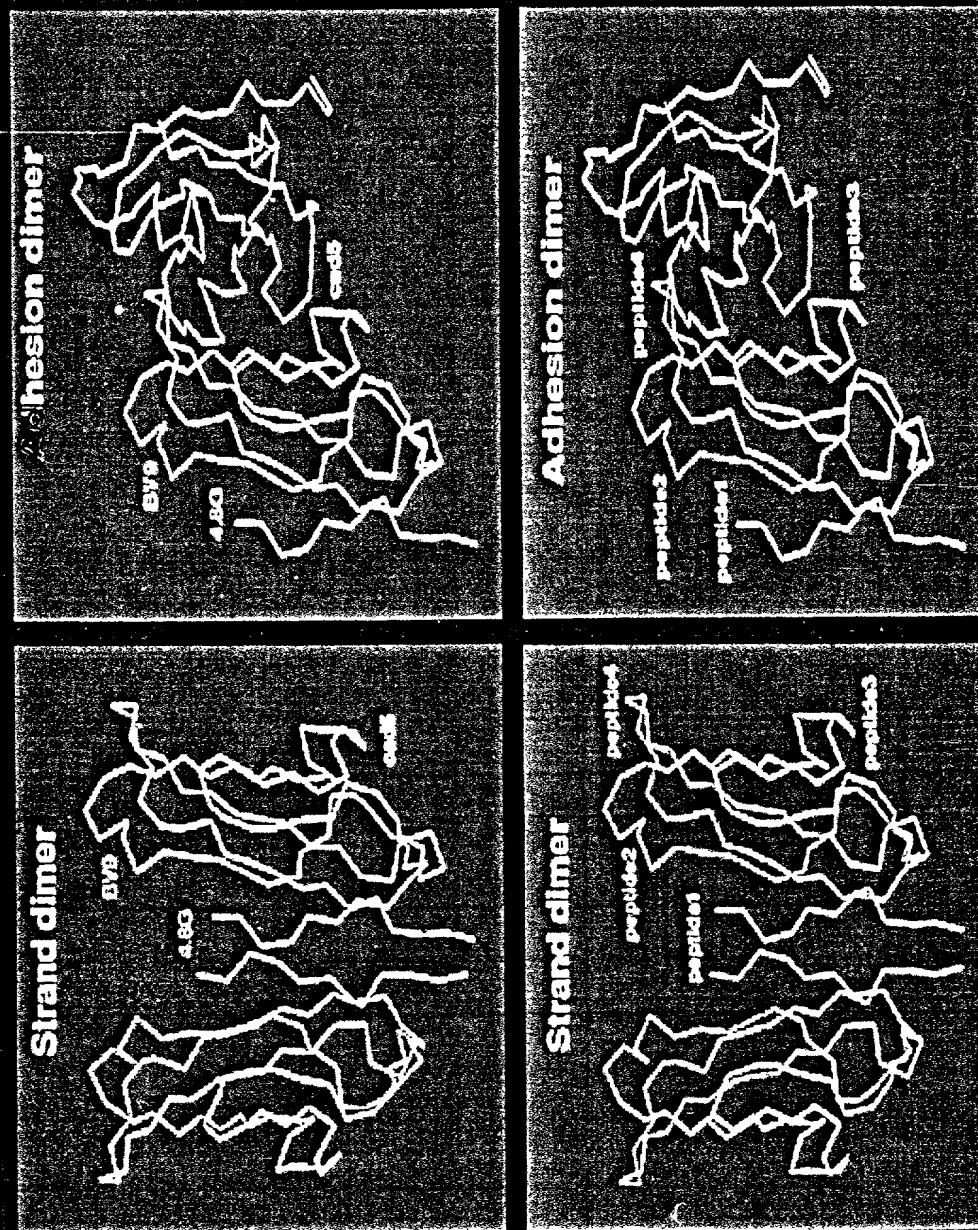
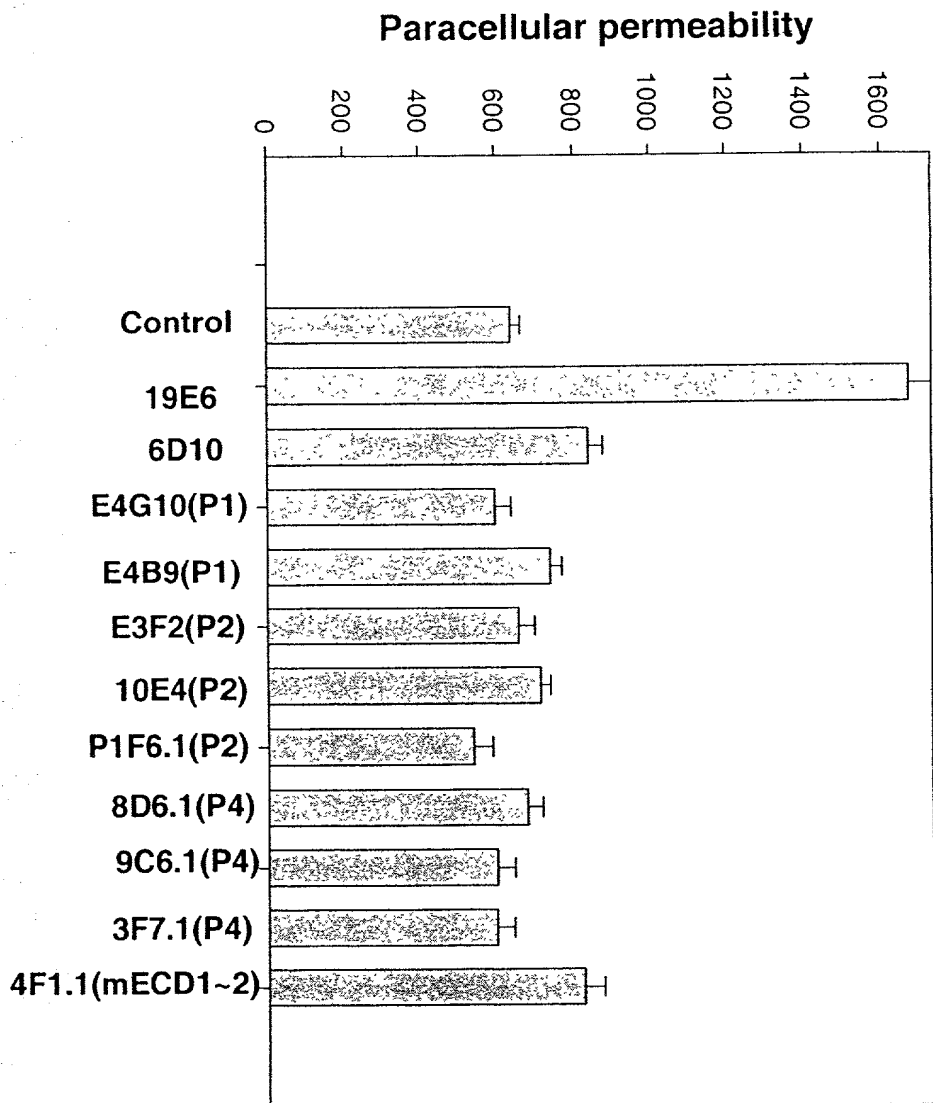


FIG. 1

Sequence Alignment of ECD1 of Four Classic Cadherins

	4.8G	BV9	Cad5	
	DWVIPPINLPENSRGPFQELVRIRSDRDKNLSLRYSVTGPCADQPPTGFIINP			mNC
	DWVIPPISCPENEKGEFPKNLVQIKSNRDKETKVFYSITGQGADKPPVGVFIER			mEC
	DWIWNQMHI DEEKN TS LPHHV GKIKSSVSRK-NAKYLLKGEYVGK----VERVDA			hVEC
	DWIWNQMHI DEEKN ES LPHYV -KDQSNVNRQ-NAKYVLQGEFAGK----IFGVDA			mVEC
Peptide 1		Peptide 2	Peptide 3	
	ISGQLSVTKPLDREL IARFHLRAH AVDIN-GNQVENPIDIVINVIDMNDNRPEF			mNC
	ETGWLKVTQPLDREAIAKYILLYSHAVSSN-GEAVEDPMEIVITVTDQNDNRPEF			mEC
	ETG DVFA IERLDRENISEYHLTAVIVDKDTGENLETPSSFTTKVHDVNDNWPVE			hVEC
	NTGNVLAYERLDREKVSEYFLTALIVDKNTNKNLEQPSSTVKVHDINDNWPVF			mVEC
		Peptide 4		

Effects of the anti-ECD1 Peptides Antibodies on Paracellular Permeability of H5V cells



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The Effects of Three Anti-murine VE-cadherin mAb on Vascular Permeability in Mice

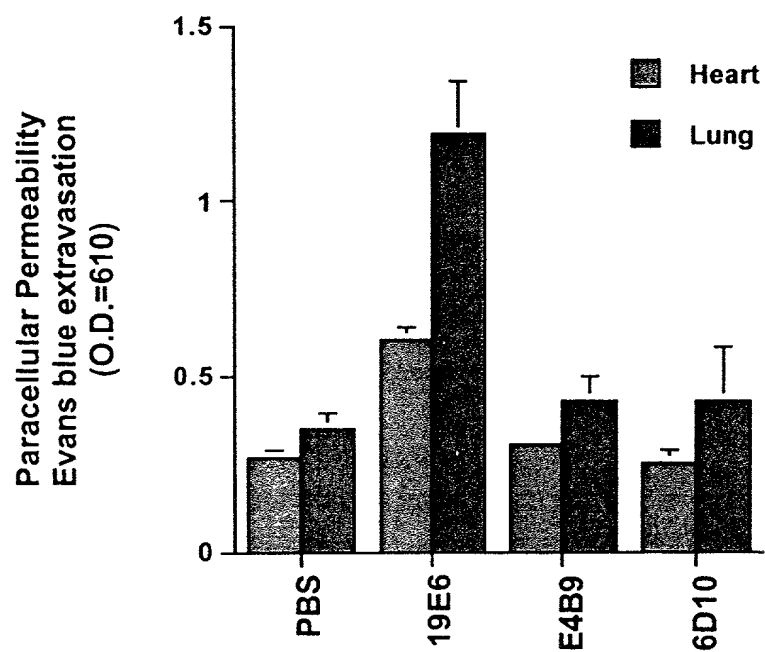


Fig 4

**Effect of anti-VE-cadherin mAb 19E6 on
b-FGF-induced neovascularization in
mouse corneal micropocket assay**



Rat IgG1



19E6

Quantification of the Effects of Three Anti-murine VE-cadherin mAb on Inhibiting Angiogenesis *in vivo* (mouse Corneal micropacket assay)

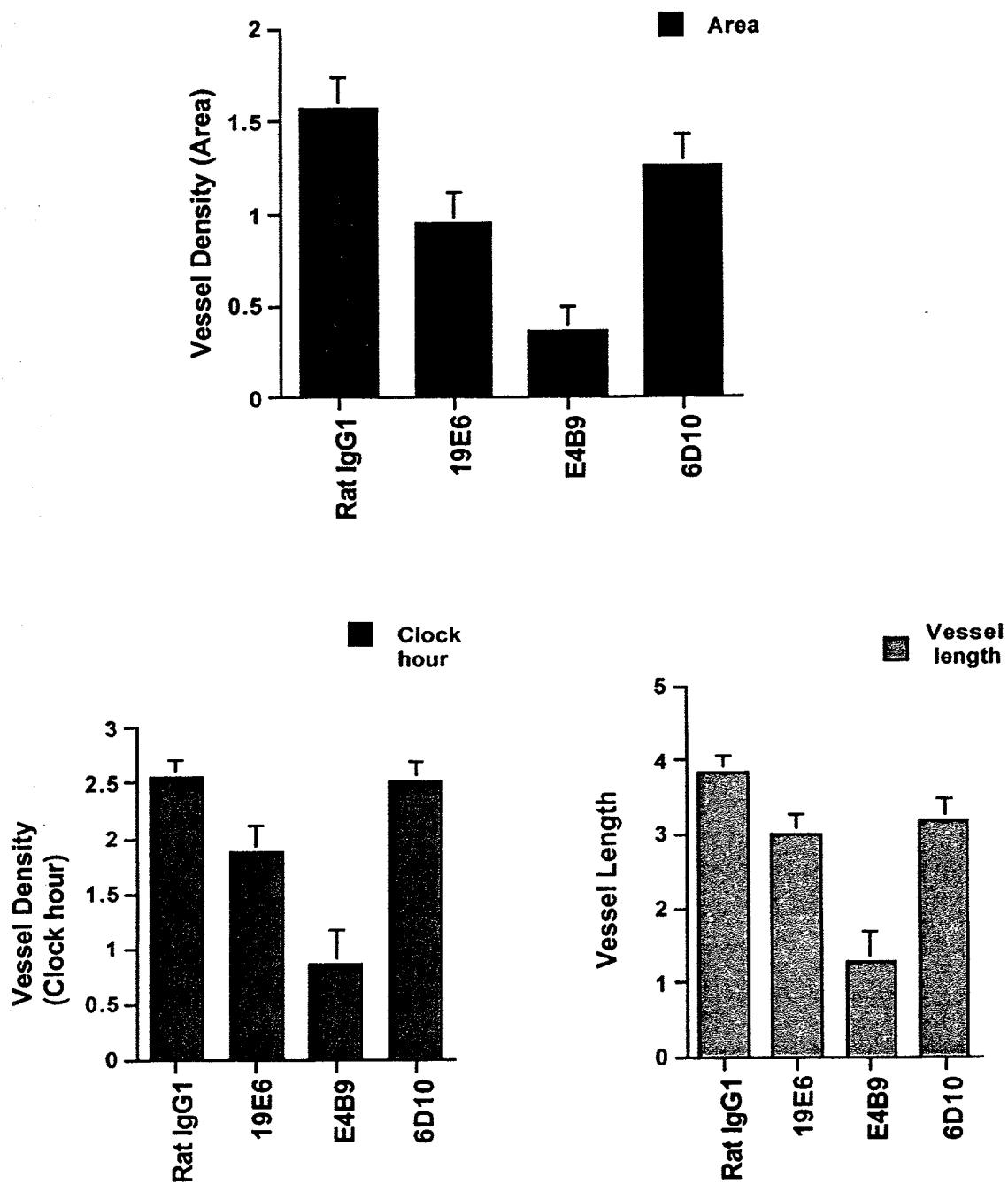


Fig. 5B

Anti-murine VE-cadherin mAb E4B9 cross-reacts with human VE-cadherin

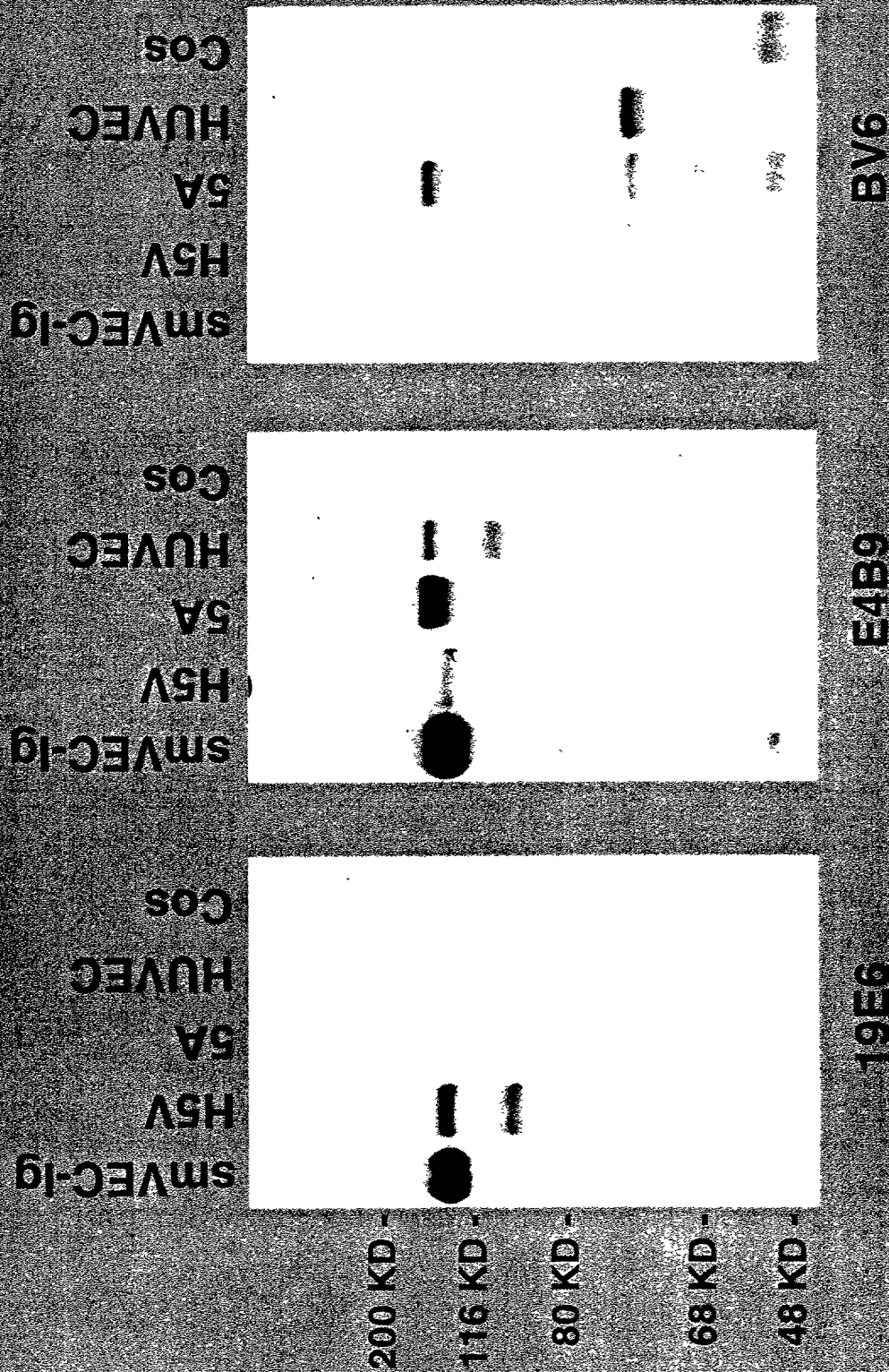
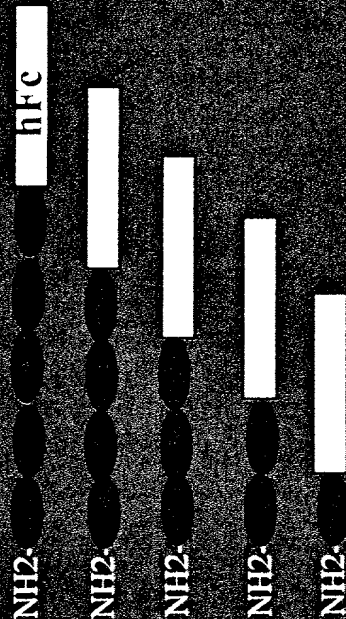


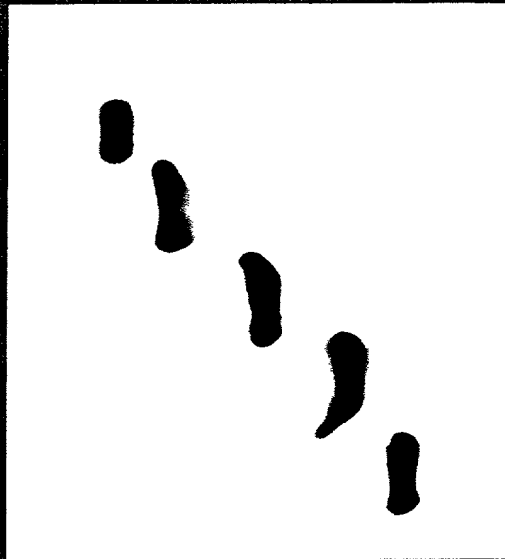
FIG. 6

Epitope Mapping for mAb19E6 and 6D10 to Specific VEC Domains

Serially truncated smVEC-Ig



10% Reducing SDS-PAGE



ELISA Design

HRP-goat anti-rat IgG



Anti-VE-cadherin mAb



Soluble truncated VEC-Ig



Goat anti-human IgG



<i>mAb</i>	Reactivity		
	19E6	6D10	DC101
hIgG	-	-	-
smD1-Ig	+	-	-
smD1~2-Ig	+	-	-
smD1~3-Ig	+	+/-	-
smD1~4-Ig	+	+	-
smD1~5-Ig	+	+	-

FIG 7

Anti-murine VE-cadherin antibodies

19E6						
E4B9						
	1	2	3	4	5	
	10G4	13E6	15F12			2B11
	2G7*	8A7	1A3*			
		5H6				
		3C3*				

Epitope Mapping

DWIWNQMHI DEEKNESLPHYVKDQSNVNRQNAKYVLQGEFAGKIFGVDAN
E4B9 19E6, 10G4 (Cad5)

TGNVLAYERLDREKVSEYFLTALVDKNTNKNLEQPSSTVKVHDINDNWPVF

Murine ECD1